REMARKS

Claims 73-83, 85-94 and 105-106 were examined. Applicant has amended claims _73, 74, 85, 87, 88__. No new claims have been presented. No new matter has been presented.

The relations between the modulator drive signal, modulator bias, and the optical power transmission of the Mach-Zehnder pulse modulator are described in paragraphs [0084] to [0089]. The relation between the optical power transmission of the Mach-Zehnder pulse modulator and the modulation depth of the pulse can be found in paragraphs [0218] and [0219]. The relations between bit-error-rate (BER) and Q-factor and the modulation depth of the pulse are described in paragraph [0223].

Amendment to Specification

Four sentences are to be inserted into the end of paragraph [0223] on page 18.

The last sentence of paragraph [0223] reads: "A graph similar to that of FIG. 30 may be generated based on the parameters of any given transmission system to determine the optimal pulse shape for that system and transmission distance."

Insert the following immediately after the last sentence of paragraph [0223]: "Parameters of a transmission system may include but not limited to the transmitted laser optical power, network channel spacing, the transmission line length, the transmission line dispersion, and nonlinearities of the transmission network. The desired modulation depth of the optical pulse can be obtained by selecting the bias and the drive voltage of the pulse modulator to produce optical pulses with optimal modulation depth that mitigate non-linearities of the PSK transmission line and minimize adjacent channel crosstalk wherein the optimal modulation depth is selected according

to the following parameters of the transmission system which may include but not limited to: the transmitted laser optical power, network channel spacing, the transmission line length, the transmission line dispersion, and honlinearities of the transmission network. The bias of the pulse modulator can be selected, for example, using an adjustable dc voltage source applied to the pulse modulator while monitoring the Q-factor or bit-error-rate of the received optical signal. Similarly, the drive voltage of the pulse modulator can be selected, for example, using a data clock driver electronic amplifier with an adjustable gain applied to the pulse modulator while monitoring the Qfactor or bit-error-rate of the received optical signal."

CeLight, Inc.

The following technical support for the last sentence can be found in specifications (no new matter added):

The bias of the pulse modulator can be selected, for example, using an adjustable do voltage source applied to the pulse modulator while monitoring the Q-factor (see vertical axis of Fig. 30 and description of Q-factor in [0223]) or bit-errol-rate (see [0213] and vertical axis of Figs. 26 and 27) of the received optical signal. |Similarly, the drive voltage of the pulse modulator can be selected, for example, using a clock driver electronic amplifier with an adjustable gain applied to the pulse modulator while monitoring the Q-factor (see vertical axis of Fig. 30 and description of Q-factor in [0223]) or bit-error-rate (see [0213] and vertical axis of Figs. 26 and 27) of the received optical signal.

CONCLUSION

Direct Line: 443-474-7797

It is submitted that the present application is in form for allowance, and such action is respectfully requested.

The Commissioner is authorized to charge any additional fees, which may be required.

Respectfully submitted, Celight, Inc. Date: __4/21/2006_ Date: __4/21/2006_ By:__ Vladimir Grigoryan Date: __4/21/2006_ Date: __4/21/2006_ By: Isaac Shpantzer Date: __4/21/2006 Alper Demir By:_ Date: __4/21/2006___ **Aviv Salomon** 12200 Tech Rd. Suite 300 Silver Spring MD 20904 Tel: 301-625-7000 Fax: 301-625-7001 ATTN: Nadya Reingand

3016256717 410**4559972**

p.11

Apr 24 06 11:328

CeLight, Inc.

3016256717

p. 9

CONCLUSION

It is submitted that the present application is in form for allowance, and such action is respectfully requested.

The Commissioner is authorized to charge any additional fees, which may be required.

Respectfully submitted," Celight, Inc.

Date: __4/21/2006_____

By: Pak Shing Cho

Date: __4/21/2006____

By: Vindimir Granvan

Date: __4/21/2006_____

Nadya Reingand

Date: __4/21/2006____

Isaac Shpantzer

Date: __4/21/2006_____

By:______ Alper Demir

Date: __4/21/2006____

By:________

12200 Tech Rd. Suite 300 Silver Spring MD 20904 Tel: 301-625-7000

Fax: 301-625-7001 ATTN: Nadya Reingand Direct Line: 443-474-7797 or 24 06 11:57a CeLight, Inc.

3016256717

P. 9

CONCLUSION

It is submitted that the present application is in form for allowance, and such action is respectfully requested.

The Commissioner is authorized to charge any additional fees, which may be required.

Kespectfully submittel,

Celight, Inc.

Date: __4/21/2006___

Pak Shing Cho

Date: __4/21/2006____

Vladimir Grigoryan

Date: __4/21/2006__

Nadya Reingand

Date: __4/21/2006_

Isaac Shpantzer

Date: __4/21/2006_

Date: __4/21/2006_

Aviv Salomon

12200 Tech Rd. Suite 300 Silver Spring MD 20904

Tel: 301-625-7000 Fax: 301-625-7001 ATTN: Nadya Reingand Direct Line: 443-474-7797

CONCLUSION	Ī
------------	---

It is submitted that the present application is in form for allowance, and such action is respectfully requested.

The Commissioner is authorized to charge any additional fees, which may be required.

> Respectfully submitted, Celight, Inc.

Date: __4/21/2006__ Pak Shing Cho

Date: __4/21/2006_ Vladimir Grigoryan

Date: __4/21/2006_ Nadya Reingand

Date: __4/21/2006___ Isaac Shpantzer

Date: __4/21/2006_ Alper Demir

Date: __4/21/2006_

12200 Tech Rd. Suite 300 Silver Spring MD 20904

Tel: 301-625-7000

Direct Line: 443-474-7797

** TOTAL PAGE.01 **